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Amendments to the Claims

What is claimed is:

1. (Currently Amended) A method of producing aluminum comprising:

passing current between a stable anode comprising iron oxide

and a cathode through a bath comprising an electrolyte and aluminum oxide, where the  
anode is a material selected from the group consisting of Fe<sub>3</sub>O<sub>4</sub>, Fe<sub>2</sub>O<sub>3</sub>, FeO and mixtures  
thereof, where at least one of Fe<sub>3</sub>O<sub>4</sub> and Fe<sub>2</sub>O<sub>3</sub> is present, and where the anode may  
optionally contain additive;

maintaining the bath at a controlled temperature less than about 960°C;

controlling current density through the anode; and

recovering aluminum from the bath.

2. (Cancelled)

3. (Original) The method of Claim 1, wherein the controlled  
temperature of the bath is from about 800 to about 930°C.

4. (Original) The method of Claim 1, wherein the current density is  
from about 0.1 to about 6 Amp/cm<sup>2</sup>.

5. (Original) The method of Claim 1, wherein the current density is  
from about 0.25 to about 2.5 Amp/cm<sup>2</sup>.

6. (Cancelled)

7. (Currently Amended) The method of Claim 1, wherein the iron  
oxide comprises at least 90 weight percent of the anode.

Robert A. DiMilia et al.  
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8. (Currently Amended) The method of Claim 1, wherein the iron oxide comprises is from zero to 100 weight percent  $Fe_3O_4$ , from zero to 100 weight percent  $Fe_2O_3$ , and from zero to 50 weight percent FeO.

9. (Currently Amended) The method of Claim 1, wherein the iron oxide comprises is  $Fe_3O_4$ .

10. (Currently Amended) The method of Claim 1, wherein the iron oxide comprises is  $Fe_2O_3$ .

11. (Canceled)

12. (Canceled).

13. (Currently Amended) The method of Claim 12, wherein the additive comprises is an oxide of Al, Si, Ca, Mn, Mg, B, P, Ba, Sr, Cu, Zn, Co, Cr, Ga, Ge, Hf, In, Ir, Mo, Nb, Os, Re, Rh, Ru, Sc, Sn, Ti, V, W, Zr, Li, Ce, Y and/or F.

14. (Currently Amended) The method of Claim 12, wherein the additive comprises is an oxide of Al, Si, Ca, Mn and/or Mg.

15. (Original) The method of Claim 1, wherein the recovered aluminum comprises less than about 0.5 weight percent Fe.

16. (Original) The method of Claim 1, wherein the recovered aluminum comprises less than about 0.4 weight percent Fe.

Robert A. DiMilia et al.  
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17. (Original) The method of Claim 1, wherein the recovered aluminum comprises less than about 0.3 weight percent Fe.

18. (Original) The method of Claim 1, wherein the recovered aluminum comprises a maximum of about 0.2 weight percent Fe, a maximum of about 0.034 weight percent Cu, and a maximum of about 0.034 weight percent Ni.

19. (Currently Amended) A stable anode ~~comprising iron oxide~~ for use in an electrolytic metal production cell, where the anode is a material selected from the group consisting of  $\text{Fe}_3\text{O}_4$ ,  $\text{Fe}_2\text{O}_3$ ,  $\text{FeO}$  and mixtures thereof, where at least one of  $\text{Fe}_3\text{O}_4$  and  $\text{Fe}_2\text{O}_3$  is present, and where the anode may optionally contain additive.

20. (Currently Amended) The stable anode of Claim 19, wherein the iron oxide comprises is from zero to 100 weight percent  $\text{Fe}_3\text{O}_4$ , from zero to 100 weight percent  $\text{Fe}_2\text{O}_3$ , and from zero to 50 weight percent  $\text{FeO}$ , where at least one of the iron oxides  $\text{Fe}_3\text{O}_4$  and  $\text{Fe}_2\text{O}_3$  is present.

21. (Currently Amended) The stable anode of Claim 19, wherein the iron oxide comprises is  $\text{Fe}_3\text{O}_4$ .

22. (Currently Amended) The stable anode of Claim 19, wherein the iron oxide comprises is  $\text{Fe}_2\text{O}_3$ .

23. (Currently Amended) The stable anode of Claim 19, further comprising containing up to about 90 10 weight percent of an additive selected from oxides of Al, Si, Ca, Mn, Mg, B, P, Ba, Sr, Cu, Zn, Co, Cr, Ga, Ge, Hf, In, Ir, Mo, Nb, Os, Re, Rh, Ru, Se, Sn, Ti, V, W, Zr, Li, Ce, Y and/or F.

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24. (Currently Amended) The stable anode of Claim 19, wherein the anode comprises is a monolithic body, comprising the iron oxide.

25. (Currently Amended) The stable anode of Claim 19, wherein the anode comprises has a surface coated with the iron oxide.

26. (Original) The stable anode of Claim 19, wherein the anode remains stable in a molten bath of the electrochemical cell at a temperature of up to 960°C.

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)